SyncMaster 703MS Plus / 704MS Plus / 705MS Plus/ 706MS Plus

Notational

Please read the following safety instructions as they are designed to prevent damage to property and harm to the user.

Warning / Caution

Failure to follow directions noted by this symbol could result in bodily harm or damage to equipment.

Notational Conventions

Prohibited

Important to read and understand at all times

Do not disassemble

Disconnect the plug from the outlet

Do not touch

Grounding to prevent an electric shock

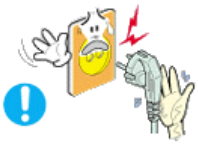
Power

When not used for extended periods of time, set your computer to a screen saver.

- If the same image is present for long periods of time, Phosphor Burnt can be occured, or the screen may be blurred.

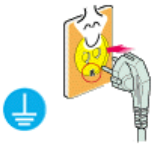
Do not use a damaged or loose plug.

- This may cause an electric shock or fire.



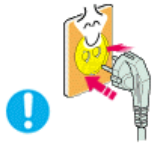
Do not pull the plug out by the wire nor touch the plug with wet hands.

- This may cause an electric shock or fire.



Use only a properly grounded plug and receptacle.

- An improper ground may cause electric shock or equipment damage.

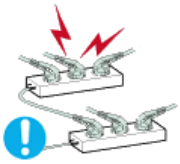


Insert the power plug firmly so that it does not come loose.

- A bad connection may cause fire.

Do not excessively bend the plug and wire nor place heavy objects upon them, which could cause damage.

- This may cause an electric shock or fire.



Do not connect too many extension cords or plugs to an outlet.

- This may cause fire.

Do not disconnect the power cord while using the monitor.

- A surge may be caused by the separation and may damage the monitor.

Do not use the power cord when the connector or plug is dusty.

- If the connector or plug of the power cord is dusty, clean it with a dry cloth.
- Using the power cord with a dusty plug or connector may cause an electric shock or fire.

Installation

Be sure to contact an authorized Service Center when installing your set in a location with heavy dust, high or low temperatures, high humidity, and chemical substances, or where it will be operated for 24 hours continuously such as an airport, train station or etc.

Failure to do so may cause serious damage to your set.

Put your monitor in a location with low humidity and a minimum of dust.

- Failure to do so may cause an electric shock or fire inside the monitor.

Do not drop the monitor when moving it.

- This may cause damage to the product or human body.

Install the monitor base in a showcase or shelf so that the end of the base does not protrude from the showcase or shelf.

- Dropping the product may cause damage to the product or personal injury.

Do not place the product on an unstable or small surface area.

- Place the product on an even, stable surface, as the product may fall and cause harm to someone walking by, specifically children.

Do not place the product on the floor.

- Someone, specifically children could trip over it.

Keep any flammable objects such as candles, insecticides or cigarettes away from the product.

- Otherwise, this may cause a fire.

Keep any heating devices away from the power cable.

- A melted coating may lead to electric shock or fire.

Do not install the product in places with poor ventilation, for instance, a bookshelf, closet, etc.

- Any increase in internal temperature may cause fire.

Set down the monitor carefully.

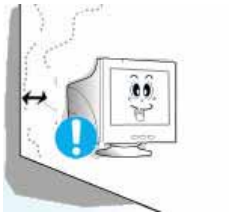
- The monitor could be damaged or broken.

Do not place the monitor face down.

- The CDT surface may be damaged.

Do not use the monitor without the monitor stand.

- It could break down or cause fire due to bad ventilation.
- If the monitor must be used without the supplied stand, take steps to insure proper ventilation.



When installing the product, make sure to keep it away from the wall (more than 10 cm/4 inch) for ventilation purposes.

- Poor ventilation may cause an increase in the internal temperature of the product, resulting in a shortened component life and degraded performance.

Keep the plastic packaging (bag) out of children's reach.

- The plastic packaging (bag) may cause suffocation if children play with it.

Clean

When cleaning the monitor case or the surface of the CDT, wipe with a slightly moistened, soft fabric.
Do not clean Flat monitor with water. Use a water-diluted mild detergent.

(Some detergents contain significant amounts of alcohol-based solvents, which can damage (color change) or crack the monitor case. The antiglare/anti-static surface coating on the CDT may also be affected.)

Dilute the detergent (1:10 ratio) with water before using.

Do not spray water or detergent directly on the monitor.

- This may cause damage, electric shock or fire.

Use the recommended detergent with a smooth cloth.

- You may prevent the coated CDT from being damaged or the monitor cabinet from being dissolved, cracked or discolored.
- You may buy a recommended detergent at any Service Center.

Caution: Use a recommended detergent only, as other surfactants containing large amounts of alcohol, solvent or other strong substances, can discolor or crack the monitor or damage the coated CDT.

If the connector between the plug and the pin is dusty or dirty, clean it properly with a dry cloth.

- A dirty connector may cause an electric shock or fire.

Make sure to unplug the power cord before cleaning the product.

- Otherwise, this may cause electric shock or fire.

Unplug the power cord from the power outlet and wipe the product using a soft, dry cloth.

- Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent.

Contact the Service Center or Customer Center for interior cleaning once a year.

- Keep the product's interior clean. Dust which has accumulated in the interior over an extended period of time may cause malfunction or fire.

Others

Do not remove cover(or back).

- This may cause an electric shock or fire.
- Refer servicing to qualified service personnel.

If your monitor does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service.

- This may cause an electric shock or fire.

Keep the product away from places exposed to oil, smoke or moisture; do not install inside a vehicle.

- This may cause malfunction, an electric shock or fire.
- Especially avoid operating the monitor near water or outdoors where the monitor could be exposed to snow or rain.

If the monitor is dropped or the casing is damaged, turn the monitor off and unplug the power cord. Then contact the Service Center.

- The monitor may malfunction, causing an electric shock or fire.

Disconnect the plug from the outlet during storms or lightening or if it is not used for a long period of time.

- Failure to do so may cause an electric shock or fire.

Do not try to move the monitor by pulling only the wire or the signal cable.

- This may cause a breakdown, electric shock or fire due to damage to the cable.

Do not move the monitor right or left by pulling only the wire or the signal cable.

- This may cause a breakdown, electric shock or fire due to damage to the cable.

Do not cover the vents on the monitor cabinet.

- Bad ventilation may cause a breakdown or fire.

Do not place water containers, chemical products or small metal objects on the monitor.

- This may cause malfunction, an electric shock or fire.
- If a foreign substance enters the monitor, unplug the power cord and contact the Service Center .

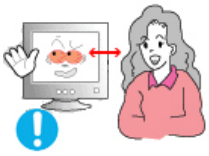
Do not place any heavy objects on the monitor.

- This may cause an electric shock or fire.

- **Keep the product away from combustible chemical sprays or inflammable substances.**
  - This may cause an explosion or fire.

- **Never insert anything metallic into the monitor openings.**
  - This may cause an electric shock, fire or injury.

- **Keep the monitor away from any magnetic substances.**
  - This may cause discoloring or distortion of the image.



- **Watching the monitor continuously at a too close angle may result in eyesight damage.**

- **To ease eye strain, take at least a five-minute break after every hour of using the monitor.**

- **Do not install the product on an unstable, uneven surface or a location prone to vibrations.**
  - Dropping the product may cause damage to the product or personal injury. Using the product in a location prone to vibrations may shorten the lifetime of the product or may catch fire.

- **When moving the monitor, turn off and unplug the power cord. Make sure that all cables, including the antenna cable and cables connected to other devices, are disconnected before moving the monitor.**
  - Failure to disconnect a cable may damage it and lead to fire or an electric shock.

- **Place the product out of children's reach, as they could damage it by hanging onto it.**
  - A falling product could cause physical damage even death.

- **When not using the product for an extended time period, keep the product unplugged**
  - Otherwise, this may cause heat emission from the accumulated dirt or degraded insulation, leading to electric shock or fire.

Please make sure the following items are included with your monitor.
If any items are missing, contact your dealer.
Contact a local dealer to buy optional items.

Unpacking

Monitor and Stand

(Some models include a stand attached.)

Manual

Quick Setup Guide

Warranty Card
(Not available in all

User's Guide,
Monitor Driver,
Natural Color software,

locations) **MagicTune™ software, HighlightZone III software**

- **Cable**

Power Cord

- **Stand**

Stand

- **For Multimedia model (Option)**
  - **Manual**

User Guide

  - **Cable**

Sound Cables(2each)

DC Power Cord

  - **Stand**

Multimedia Speaker Stand

- **Front**

1	**MENU button**	Opens the OSD menu. Also used to exit the OSD menu or return to the previous menu.
2	**Adjust buttons [▼/▲]**	These buttons allow you to highlight and adjust items in the menu.
3	**Enter button [⏎]**	Used to select the OSD menu.
4	**Power button [⏻]**	Use this button for turn the monitor on and off.
5	**Power indicator**	This light glows green during normal operation, and blinks green once as the monitor saves your adjustments.

See PowerSaver described in the manual for further information regarding power saving functions. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods.

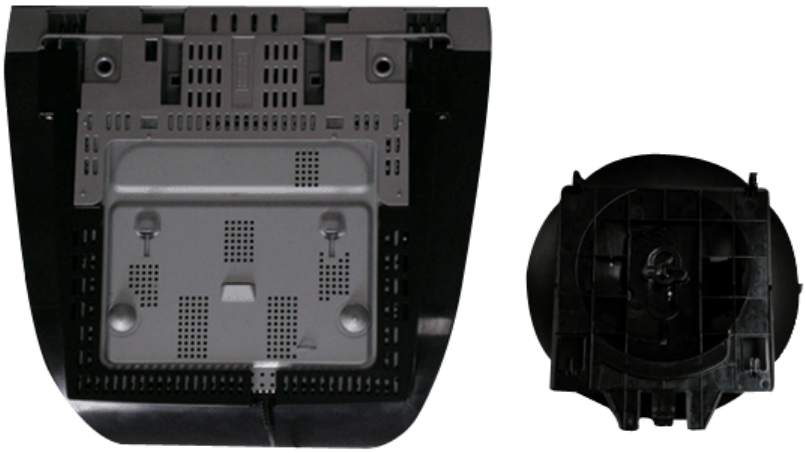
- **Rear**

(The configuration at the back of the monitor may vary from product to product.)

1	**Power port**	Connect the power cord for your monitor to the power port on the back of the monitor.
2	**Signal Cable**	Connect the signal cable to the video port on your computer. (video board, video card, or graphics card)

See Connecting the Monitor for further information regarding cable connections.

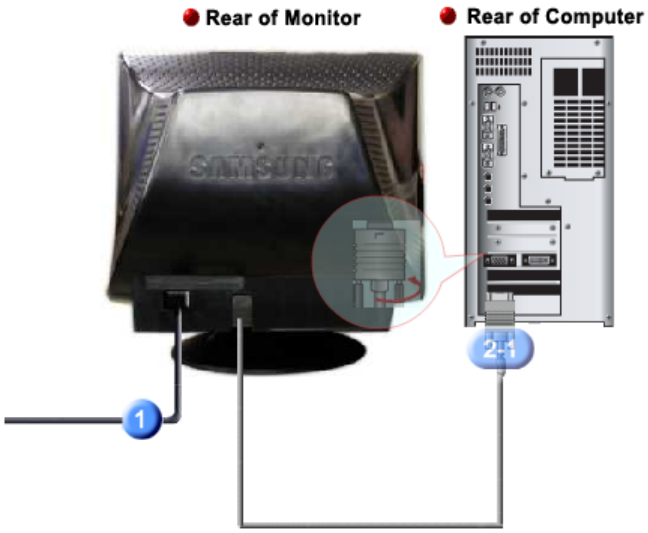
Bottom

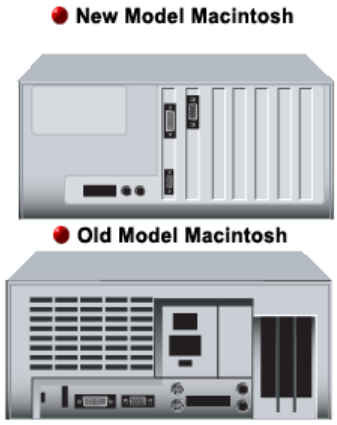


1	**Tilt/Swivel Base**	You can separate the base from the monitor.

Connecting the Monitor

Setup-For Multimedia model | Multimedia Speaker Stand





1. Connect the power cord for your monitor to the power port on the back of the monitor.
Plug the power cord for the monitor into a nearby outlet.

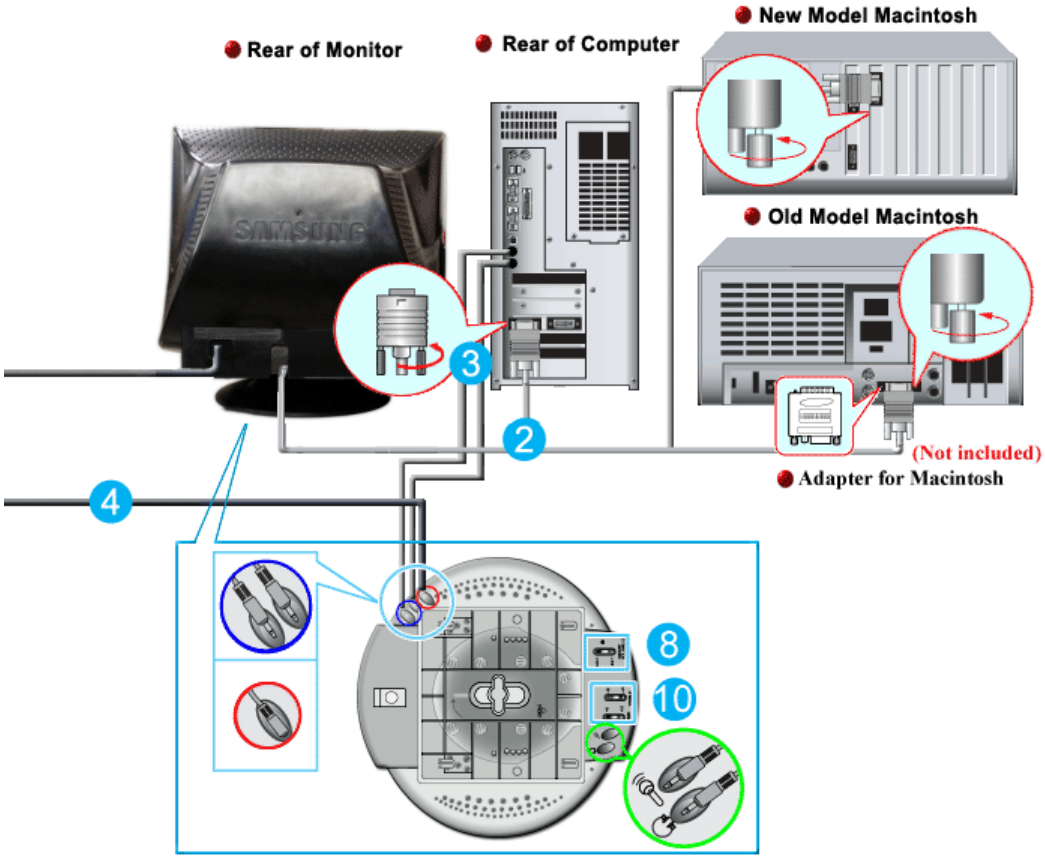
2-1. Connecting to a computer
Connect the signal cable to the 15-pin, D-sub connector on the back of your computer.

2-2. Connecting to a new Macintosh
Connect the monitor to the Macintosh computer using the D-SUB connection cable.

2-3. Connecting to an old Macintosh
Connect your monitor to the Macintosh using the adapter for Macintosh (sold separately).

3. Turn on your computer and monitor. If your monitor displays an image, installation is complete.

Setup-For Multimedia model

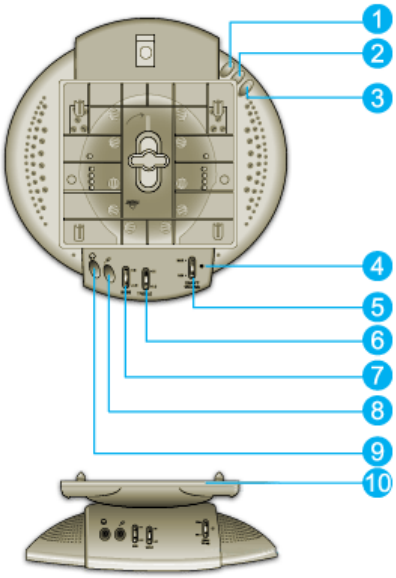


1. Turn off your computer and unplug the power cord.
2. Connect the end of the signal cable to your computer's video port(video board, video card or graphics card).
3. Connect one end of the other sound cable to the Mic Input jack on your sound card or computer.Connect the other end of this cable to the Mic By-pass jack on the back of the monitor stand.
4. Plug the DC power cord from the stand into a nearby outlet.
5. Connect the power cord for your monitor to the power port on the back of the monitor.
6. Plug the power cord for the monitor and the power cord for your computer into a nearby outlet.
7. Turn on your computer and monitor.
8. Turn up or down the On-Off control terminal on the stand of the monitor until it clicks.
9. Execute a sound program, music or sound effect in your computer and then adjust the volume by turning up or down until the sound volume is appropriate.
10. Adjust the treble and bass.

Sound distortion may occur when the monitor is placed on top of a mostly hollow cabinet such as your computer. If this occurs, place a pad or magazine beneath the monitor stand. High sound volume may also cause sound distortion; lower the volume.

Multimedia Speaker Stand

1. **Mic By-pass Jack**
   To transmit your voice,connect a sound cable from the Mic By-pass jack to the mic in jack on the sound card slot in your computer.
2. **Stereo Input Jack**
   Connect a sound cable from the input source(sound card,computer,CD-ROM drive).



3. **DC Power Cord**
   Connect DC power cord to monitor DC 12V output jack.
4. **Power Indicator**
   Glows green when the speakers are turned on.
5. **On/Off Volume**
   Turns On/Off and adjusts the output volume.
6. **Treble Control**
   Use to control high frequencies.
7. **Bass Control**
   Use to control low frequencies.
8. **Mic Input Jack**
   To transmit your voice,connect a microphone to this jack.
9. **Headphone Jack**
   To listen in privacy,connect headphones here.
10. **Detachable Stand Top**

Base Installation

Tilt/Swivel Base | Attaching and Removing the Base

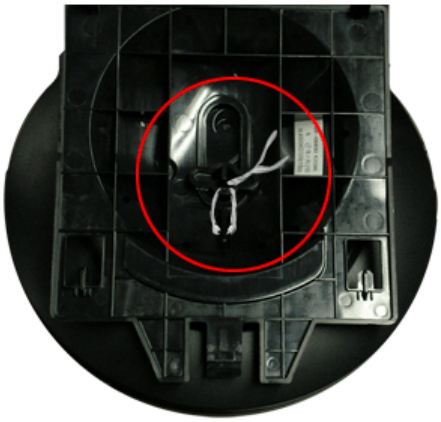
Tilt/Swivel Base

With the built-in pedestal, you can tilt and/or swivel the monitor for the most comfortable viewing angle.

The base is detachable.

Attaching and Removing the Base

If your monitor was supplied with the base detached, attach the base as follows.



Remove the twist-tie before attaching the base to the monitor.

Attaching the Base

1. Place the monitor upside-down on a flat work surface.
2. Align the tabs on the base with the corresponding slots on the bottom of the monitor.
3. Press the base onto the monitor until the tabs are fully engaged in the slots.
4. Push the base toward the front of the monitor until the release latch clicks into the locked position.
   * Do not bend the snap.

Removing the Base

5. Squeeze and pull up on the release latch on the base.
6. Push the base toward the back of the monitor and lift up to remove the base.

The base will align with the monitor slots in only one position.

Installing the Monitor Driver(Automatic)

When prompted by the operating system for the monitor driver, insert the CD-ROM

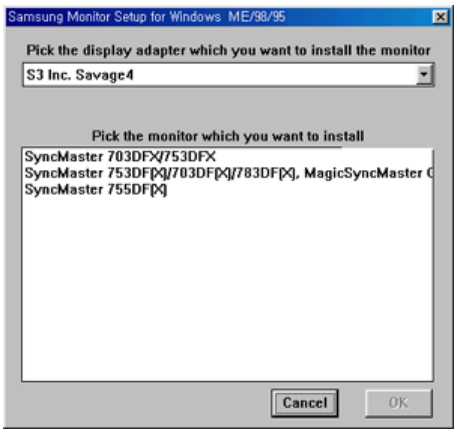
included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions appropriate for the operating system you have.

Prepare a blank disk and download the driver program file at the Internet web site shown here.

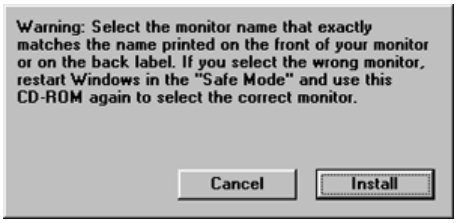
- Internet web site : http://www.samsung.com/ (Worldwide)
  http://www.samsung.com/monitor (U.S.A)
  http://www.sec.co.kr/monitor (Korea)
  http://www.samsungmonitor.com.cn/ (China)

Windows ME

1. Insert CD into the CD-ROM drive.
2. Click **"Windows ME Driver"**.
3. Choose your monitor model in the model list, then click the **"OK"** button.


Samsung Monitor Setup for Windows ME/98/95
Pick the display adapter which you want to install the monitor
S3 Inc. Savage4
Pick the monitor which you want to install
SyncMaster 703DFX/753DFX
SyncMaster 753DF[X]/703DF[X]/783DF[X], MagicSyncMaster
SyncMaster 755DF[X]
Cancel
OK

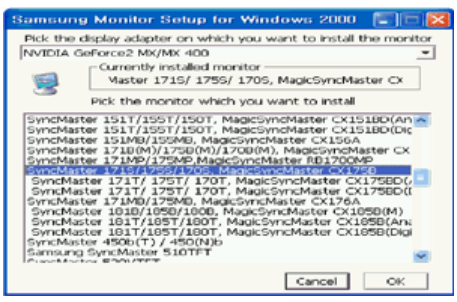
4. Click the **"Install"** button in the **"Warning"** window.


Warning: Select the monitor name that exactly matches the name printed on the front of your monitor or on the back label. If you select the wrong monitor, restart Windows in the "Safe Mode" and use this CD-ROM again to select the correct monitor.
Cancel
Install

5. Monitor driver installation is completed.

Windows XP/2000

1. Insert CD into the CD-ROM drive.
2. Click **"Windows XP/2000 Driver"**
3. Choose your monitor model in the model list, then click the **"OK"** button.


Samsung Monitor Setup for Windows 2000
Pick the display adapter on which you want to install the monitor
NVIDIA GeForce2 MX/MX 400
Currently installed monitor
Pick the monitor which you want to install
Samsung SyncMaster 510TFT
Cancel
OK

4. If you can see following message window, then click the **"Continue Anyway"** button. Then click **"OK"** button.

Hardware Installation
The software you are installing for this hardware:
SyncMaster 171S/ 175S/ 170S, MagicSyncMaster CX175S
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

This monitor driver is under certified MS logo and this installation doesn't damage your system. The certified driver will be posted on Samsung Monitor homepage.
http://www.samsung.com/.

5. Monitor driver installation is completed.

Installing the Monitor Driver(Manual)

Windows XP | Windows 2000 | Windows Me | Windows NT | Linux

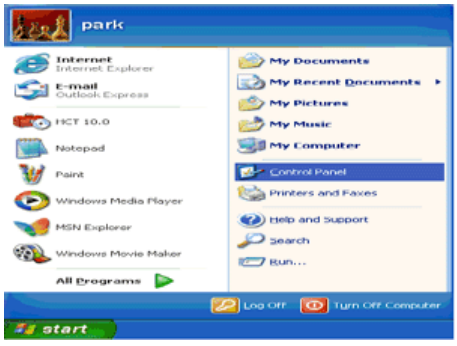
When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions appropriate for the operating system you have.

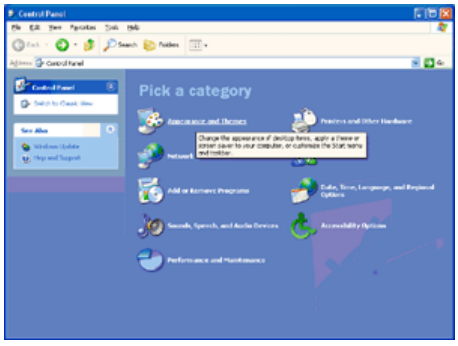
Prepare a blank disk and download the driver program file at the Internet web site shown here.

- Internet web site : http://www.samsung.com/ (Worldwide)
  http://www.samsung.com/monitor (U.S.A)
  http://www.sec.co.kr/monitor (Korea)
  http://www.samsungmonitor.com.cn/ (China)

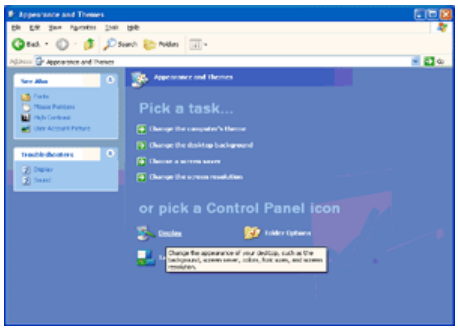
Microsoft® Windows® XP Operating System

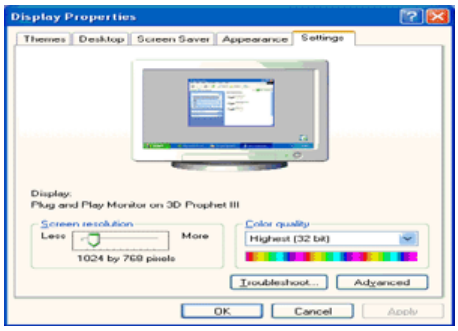
1. Insert CD into the CD-ROM driver.
2. Click "**Start**" —> "**Control Panel**" then click the "**Appearance and Themes**" icon.



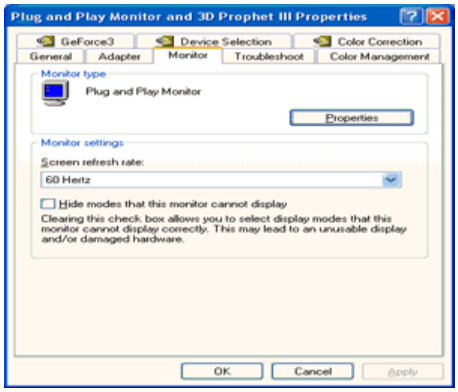


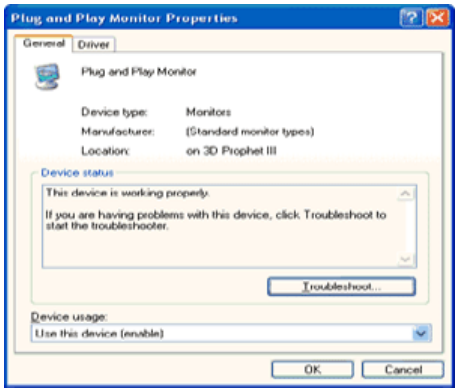
3. Click "**Display**" icon and choose the "**Settings**" tab then click "**Advanced..**".



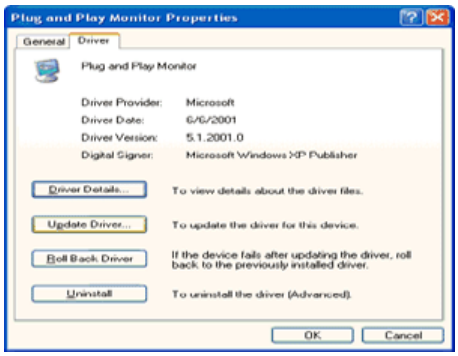


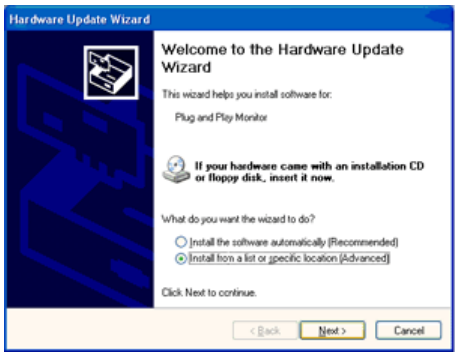
4. Click the "**Properties**" button on the "**Monitor**" tab and select "**Driver**" tab.



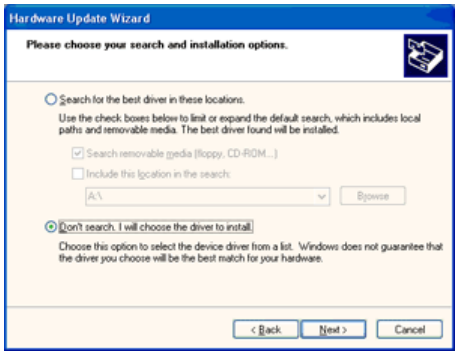
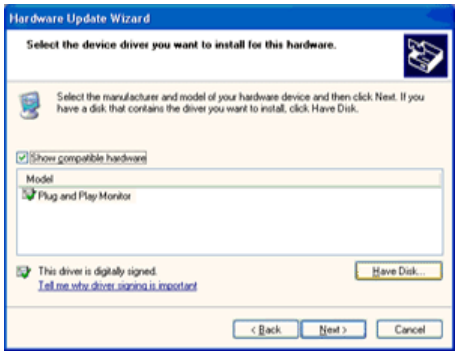


5. Click "**Update Driver..**" and select "**Install from a list or..**" then click "**Next**" button.

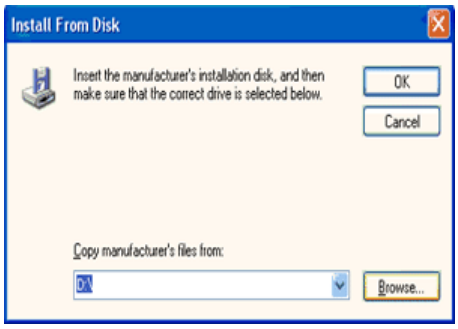


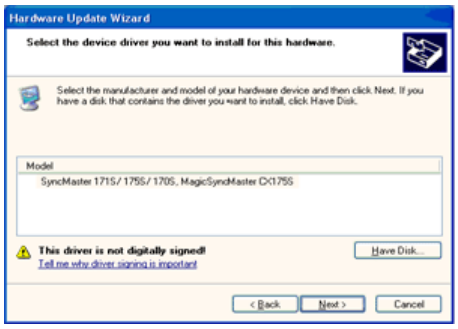

Hardware Update Wizard
Welcome to the Hardware Update Wizard
This wizard helps you install software for:
Plug and Play Monitor
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

6. Select "**Don't search ,I will..**" then click "**Next**" and then click "**Have disk**".

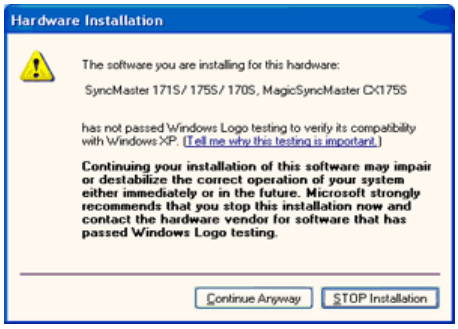

Hardware Update Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
A:\
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

Hardware Update Wizard
Select the device driver you want to install for this hardware.
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Show compatible hardware
Model
Plug and Play Monitor
This driver is digitally signed.
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

7. Click the "**Browse**" button then choose A:(D:\Driver) and choose your monitor model in the model list and click the "**Next**" button.



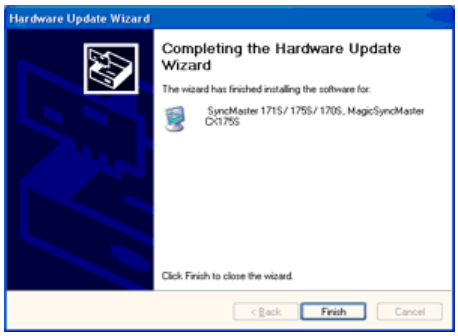

Hardware Update Wizard
Select the device driver you want to install for this hardware.
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Model
SyncMaster 171S/ 175S/ 170S, MagicSyncMaster CX175S
This driver is not digitally signed!
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

8. If you can see following message window, then click the "**Continue Anyway**" button. Then click "**OK**" button.

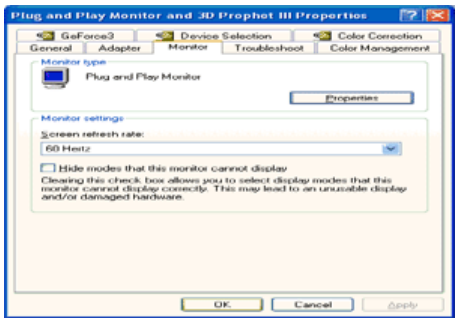

Hardware Installation
The software you are installing for this hardware:
SyncMaster 171S/ 175S/ 170S, MagicSyncMaster CX175S
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

This monitor driver is under certified MS logo and this installation doesn't damage your system. The certified driver will be posted on Samsung Monitor homepage.
http://www.samsung.com/.

9. Click the "**Close**" button, then click "**OK**" button continually.


Hardware Update Wizard
Completing the Hardware Update Wizard
The wizard has finished installing the software for:
SyncMaster 171S/ 175S/ 170S, MagicSyncMaster CX175S
Click Finish to close the wizard.
< Back
Finish
Cancel

SyncMaster 171S/ 175S/ 170S, MagicSyncMaster CX...
General
Driver
SyncMaster 171S/ 175S/ 170S, MagicSyncMaster CX175S
Driver Provider: Samsung
Driver Date: 9/11/2001
Driver Version: 1.0.0.0
Digital Signer: Not digitally signed
Driver Details...
To view details about the driver files.
Update Driver...
To update the driver for this device.
Roll Back Driver
If the device fails after updating the driver, roll back to the previously installed driver.
Uninstall
To uninstall the driver (Advanced).
Close
Cancel



10. Monitor driver installation is completed.

Microsoft® Windows® 2000 Operating System

When you can see "Digital Signature Not Found" on your monitor, follow these steps.

1. Choose "**OK**" button on the "**Insert disk**" window.
2. Click the "**Browse**" button on the "**File Needed**" window.
3. Choose A:(D:\Driver) then click the "Open" button and then click "**OK**" button.

How to install

1. Click "**Start**" , "**Setting**" , "**Control Panel**".
2. Double click the "**Display**" Icon.
3. Choose the "**Settings**" tab and then click "**Advanced..**".
4. Choose "**Monitor**".
   Case1: If the "Properties" button is inactive, it means your monitor is properly configured. Please stop installation
   Case2: If the "Properties" button is active, click the "Properties" button then follow next steps continually.
5. Click "**Driver**" and then click on "**Update Driver..**" then click on the "Next" button.
6. Choose "**Display a list of the known drivers for this device so that I can choose a specific driver**" then click "**Next**" and then click "**Have disk**".
7. Click the "**Browse**" button then choose A:(D:\Driver).
8. Click the "**Open**" button, then click "**OK**" button.
9. Choose your monitor model and click the "**Next**" button then click "**Next**" button.
10. Click the "**Finish**" button then the "**Close**" button.

    If you can see the "**Digital Signature Not Found**" window then click the "**Yes**"button.
    And click the "**Finish**" button then the "**Close**" button.

Microsoft® Windows® Millennium Operating System

1. Click "**Start**" , "**Setting**" , "**Control Panel**".
2. Double click "**Display**" icon.
3. Select the "**Settings**" tab and click "**Advanced Properties**" button.
4. Select the "**Monitor**" tab.
5. Click the "**Change**" button in the "**Monitor Type**" area.
6. Choose "**Specify the location of the driver**".
7. Choose "**Display a list of all the driver in a specific location..**" then click "**Next**" button.
8. Click the "**Have Disk**" button
9. Specify A:\(D:\driver) then click "**OK**" button.
10. Select "**Show all devices**" and choose the monitor that corresponds to the one you connected to your computer and click "**OK**".
11. Continue choosing "**Close**" button and "**OK**" button until you close the Display Properties dialogue box.

Microsoft® Windows® NT Operating System

1. Click **Start**, **Settings**, **Control Panel**, and then double-click **Display** icon.
2. In Display Registration Information window, click Settings Tab and then click **All Display Modes**.
3. Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click **OK**.
4. Click **Apply** button if you see the screen working normally after clicking **Test**. If the screen is not normal, change to a different mode (lower mode of resolution, colors or frequency).

If there is no Mode at **All Display Modes**, select the level of resolution and vertical frequency by referring to the Preset Timing Modes in the user guide.

Linux Operating System

To execute X-Window, you need to make the X86Config file, which is a type of system setting file.

1. Press Enter at the first and the second screen after executing the X86Config file.
2. The third screen is for **setting your mouse**.
3. Set a mouse for your computer.
4. The next screen is for **selecting a keyboard**.
5. Set a Keyboard for your computer.
6. The next screen is for **setting your monitor**.
7. First of all, set a **horizontal frequency** for your monitor. (You can enter the frequency directly.)
8. Set a **vertical frequency** for your monitor. (You can enter the frequency directly.)
9. Enter the **model name of your monitor**. This information will not affect the actual execution of X-Window.
10. You have **finished** setting up your monitor.
    Execute X-Window after setting other requested hardware.

Natural Color

Natural Color Software Program

One of the recent problems in using a computer is that the color of the images printed out by a printer or other images scanned by a scanner or a digital camera are not the same as those shown on the monitor.
The Natural Color S/W is the very solution for this problem. It is a color administration system developed by Samsung Electronics in association with Korea Electronics & Telecommunications Research Institute (ETRI).
This system is available only for Samsung monitors and makes the color of the images on the monitor the same as the printed or scanned images.
For more information, refer to Help (F1) in the software program.

How to install the Natural Color software
Insert the CD included with the Samsung monitor into the CD-ROM Drive. Then, the initial screen of the program Natural Color will be executed. Click Natural Color on the initial screen to install the Natural Color software.
To install the program manually, insert the CD included with the Samsung monitor into the CD-ROM Drive, click the **[Start]** button of Windows and then select **[Execute]**.
Enter D:\color\eng\setup.exe and then press the **<Enter>** key.
(If the drive where the CD is inserted is not D:\, enter the applicable drive.)

How to delete the Natural Color software program
Select **[Setting]/[Control Panel]** on the **[Start]** menu and then double-click **[Add/Delete a program]**.
Select Natural Color from the list and then click the **[Add/Delete]** button.

1	**MENU**	Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
2	**[▼/▲]**	These buttons allow you to highlight and adjust items in the menu.
3	**[↵]**	Use to select the OSD menu.
A	**[▼]**	MagicBright2™ is a new feature providing optimum viewing environment depending on the contents of the image you are watching.
B	**[▲]**	The HighlightZone ensures clear images on TVs, video conferencing systems or photos by emphasizing a certain area on the screen.

MagicBright2™

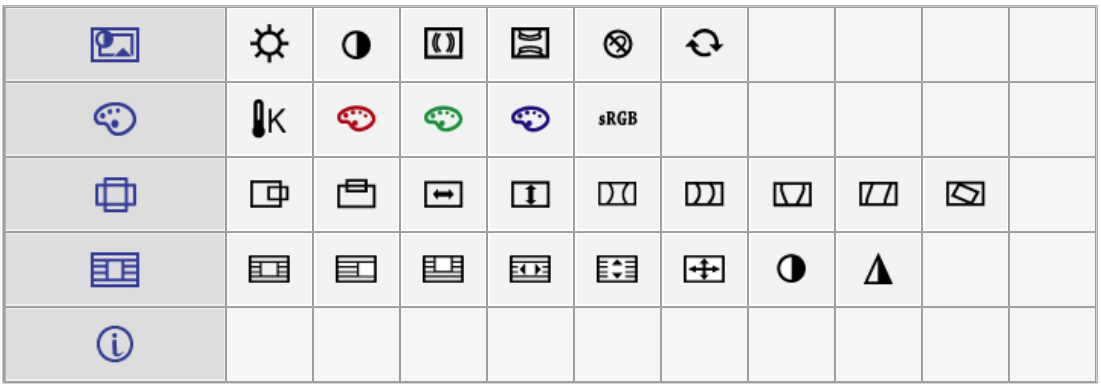
Menu	Description
MagicBright2™	Then push the MagicBright2™ button **[▼]** again to circle through available preconfigured modes. For documentations or works involving heavy text. For working with a mixture of images such as text and graphics. For watching motion pictures such as a game. For watching motion pictures such as a DVD or Video CD.

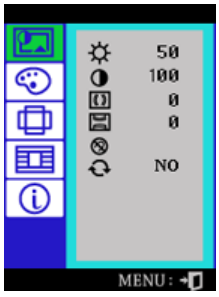
HighlightZone

Menu	Description
	Use this button **[▲]** for HighlightZone on and off. The HighlightZone ensures

HighlightZone	the clear and sharp display of animated multimedia or photo images by enhancing the brightness of a certain area on the screen. **Note** : If control MagicBright function after HighlightZone setting, HighlightZone turns off automatically.

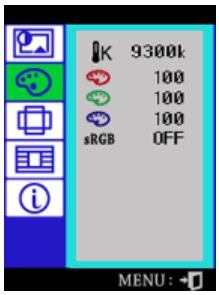
Select an icon that you want to know from the OSD menu to display a text or animation explanation of that icon.



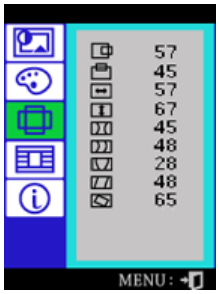


Menu	Description	Play/Stop
☼	You can use the on-screen menus to change the brightness according to personal preference.	
◑	You can use the on-screen menus to change the contrast according to personal preference.	
(( ))	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the horizontal moire adjustments.	

	A "Moirë" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the vertical moire adjustments.	
	The Degauss feature will remove color impurities caused by magnetic fields.	
	Use the recall feature to reset these monitor settings to their original levels: Position, Size, Pincushion, Trapezoid, Parallelogram, Pinbalance, Rotation, H-Moire,and V-Moire. **Note:** If you have selected "Yes", all settings listed above will be reset. All other settings will remain the same.	

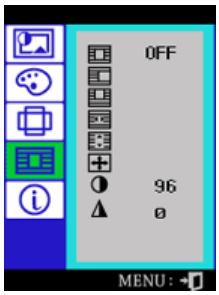


Menu	Description	Play/Stop
K	Color temperature is a measure of the 'warmth' of the image colors. (6500k / 9300k)	
	Use to adjust the monitor color setting.(Red)	
	Use to adjust the monitor color setting.(Green)	
	Use to adjust the monitor color setting.(Blue)	
sRGB	Standard Red Green Blue (sRGB) is a defined default color space. If a monitor, printer and scanner are all calibrated to the sRGB color characteristics, then you can find color matching from each peripheral. **Note:**When the monitor is in the sRGB mode, Brightness / Contrast / MagicBright2™ / HighlightZone adjustment is not available.	



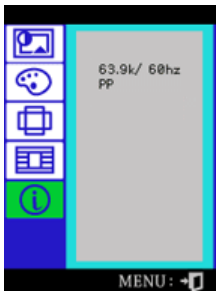
Menu	Description	Play/Stop
	Follow these instructions to change the horizontal position of the monitor's entire display.	
	Follow these instructions to change the vertical position of the monitor's entire display.	
	Follow these instructions to change the horizontal size of the monitor's entire display.	
	Follow these instructions to change the vertical size of the monitor's entire display.	
	Adjust the pincushion setting when the sides of the display are bowed in or bowed out.	
	Adjust the pinbalance setting when the sides of the display are bowed towards the left or right.	
	Adjust the trapezoid setting when the top or bottom of the display is too large or small.	
	Adjust the parallelogram setting when the display is leaning left or right.	
	Adjust the rotation setting when the entire display is tilted left or right.	

UP



OSD	Description	Play / Stop
	Use to turn the HighlightZone features on or off. **Note** : When "OFF" is selected, the user cannot choose any other HighlightZone features.	
	This function is to move the HighlightZone horizontally.	
	This function is to move the HighlightZone vertically.	
	This function is to adjust the horizontal size of the HighlightZone.	
	This function is to adjust the vertical size of the HighlightZone.	
	This function is to adjust horizontal and vertical size of the HighlightZone.	
	This function is to use the contrast of the HighlightZone.	
	This function is to adjust the sharpness of the HighlightZone.	

UP



Provides information about the display timing and sync signals polarity(user mode).
Note: These screens do not allow any changes to the settings, they are for information only.

MagicTune™ HELP

Overview

What is MagicTune™?

Monitor performance can vary due to the graphics card, host computer lighting conditions and other environmental factors. In order to get the best image on a monitor requires you to adjust it for your unique setting. Unfortunately, the manual controls available to tune the image often prove to be challenging. Proper adjustment (tuning) requires an easy to use program that goes through a step-by-step process to obtain the best overall picture quality.

In most cases even simple adjustments to Brightness, or Contrast require navigation of the multi-level, on-screen display (OSD) menus that are not easy to understand. Furthermore, there is no feedback to assist in correctly setting the controls of the monitor. MagicTune™ is a software utility that guides you through the tuning process with easy to understand instructions and back ground patterns designed for each monitor control. The display settings for each user can be saved, providing an easy way to select display characteristics in a multi-user environme or having a single user have multiple defined presets based on content and ambient lighting.

Basic Functionality

MagicTune™ is a software utility that allows monitor adjustment and color tuning using the Display Data Channel Command Interface (DDC/CI) protocol. All adjustments to the display are controlled via software to eliminate the need to use the monitor on-screen display (OSD).
MagicTune™ supports Windows™ 98 SE, Me, 2000, XP Home, and XP Professional.
It is recommended using MagicTune™ in Windows™ 2000 or later.

MagicTune™ allows for quick accurate tuning of the display with the ability to easily save and use monitor configurations that are best suited for you.

OSD Mode

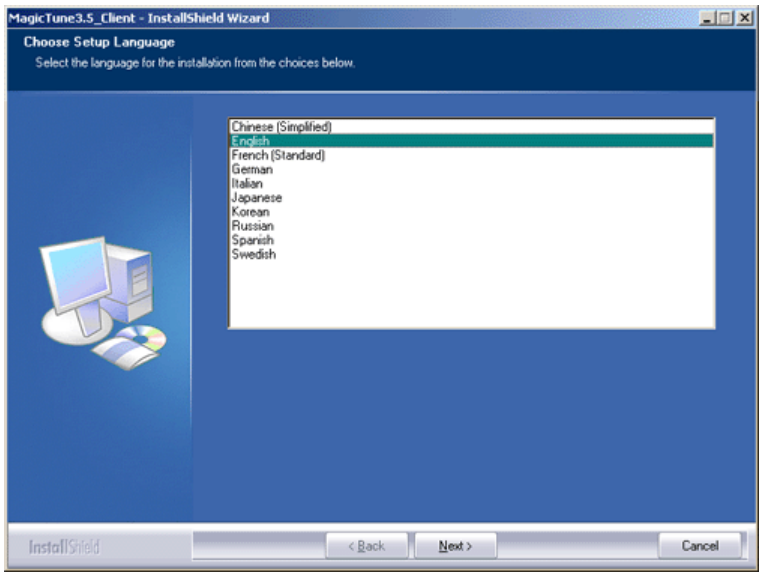
The OSD mode allows easy adjustment of monitor settings without taking pre-defined steps. You can access the desired menu item to set with ease.

The MagicTune™ program is an additional program for monitor products.
Some computing systems that install either an older or the latest video driver are not compatible with MagicTune™.
Please visit the MagicTune™ Website for technical support for MagicTune™.

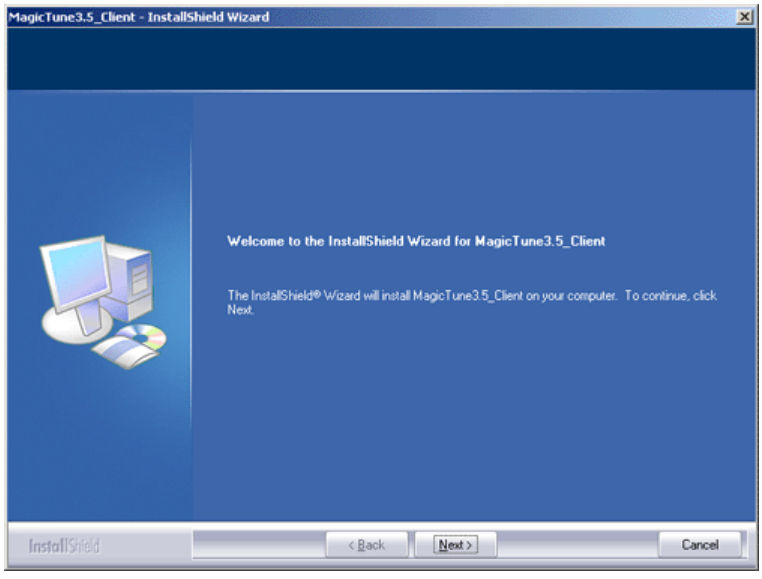
Specifications subject to change without notice.
MagicTune™ is a trademark of SAMSUNG ELECTRONICS CO., Inc.
Windows™ is a registered trademark of Microsoft Corp.
Other trademarks are property of their respective holders.

Installation

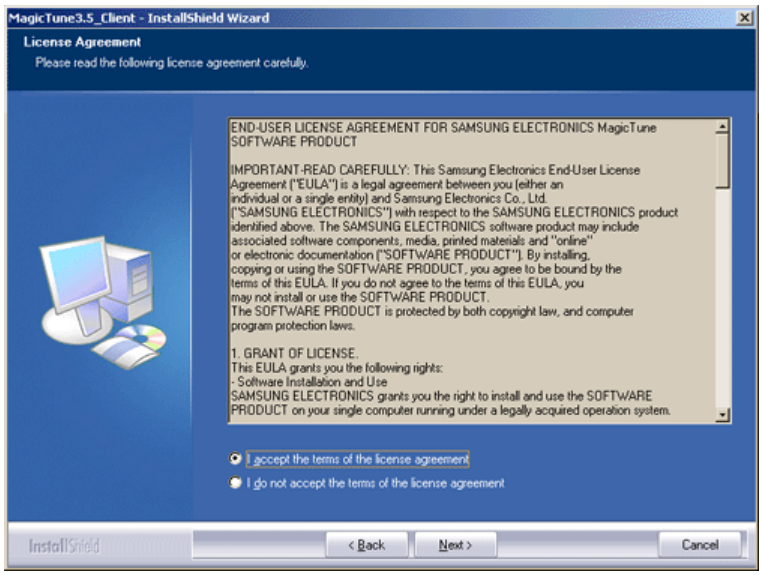
1. Insert the installation CD into the CD-ROM drive.
2. Click the MagicTune™ installation file.
3. Select installation Language, Click "Next".



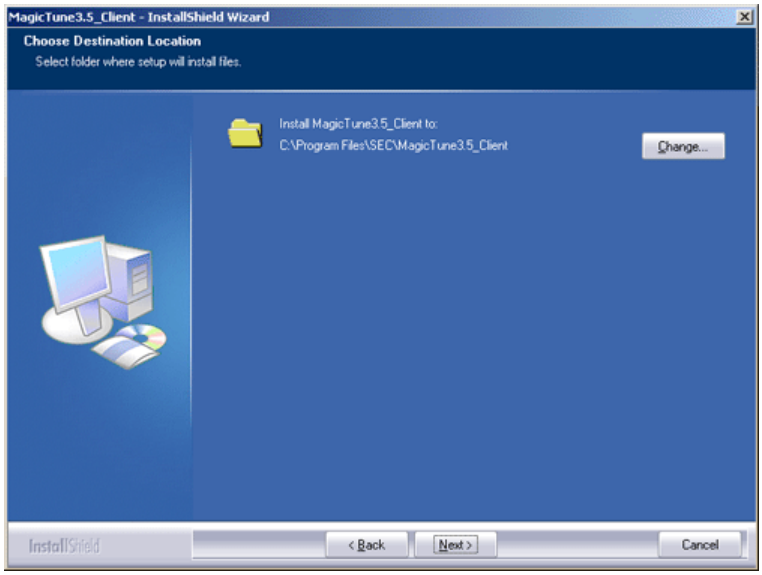
4. When the Installation Shield Wizard window appears, click "Next."


MagicTune3.5_Client - InstallShield Wizard
Welcome to the InstallShield Wizard for MagicTune3.5_Client
The InstallShield® Wizard will install MagicTune3.5_Client on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

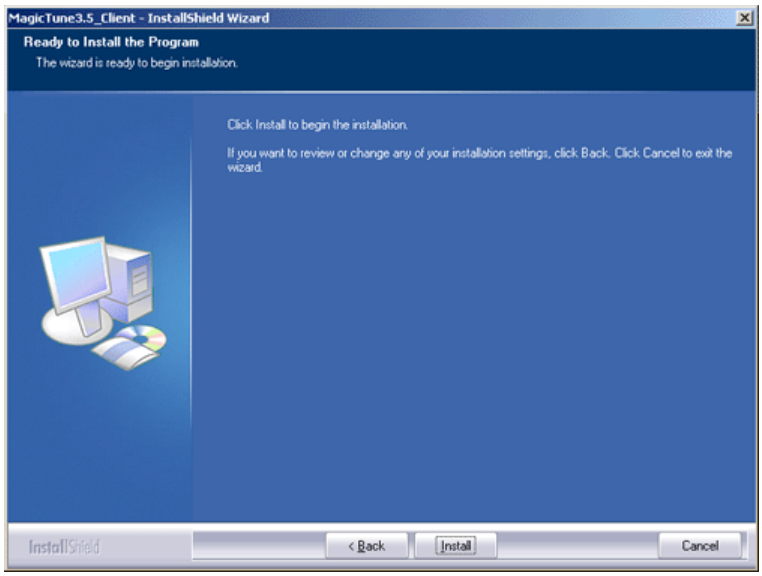
5. Select "I agree to the terms of the license agreement" to accept the terms of use.


MagicTune3.5_Client - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
END-USER LICENSE AGREEMENT FOR SAMSUNG ELECTRONICS MagicTune SOFTWARE PRODUCT
IMPORTANT-READ CAREFULLY: This Samsung Electronics End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and Samsung Electronics Co., Ltd. ("SAMSUNG ELECTRONICS") with respect to the SAMSUNG ELECTRONICS product identified above. The SAMSUNG ELECTRONICS software product may include associated software components, media, printed materials and "online" or electronic documentation ("SOFTWARE PRODUCT"). By installing, copying or using the SOFTWARE PRODUCT, you agree to be bound by the terms of this EULA. If you do not agree to the terms of this EULA, you may not install or use the SOFTWARE PRODUCT.
The SOFTWARE PRODUCT is protected by both copyright law, and computer program protection laws.
1. GRANT OF LICENSE.
This EULA grants you the following rights:
- Software Installation and Use
SAMSUNG ELECTRONICS grants you the right to install and use the SOFTWARE PRODUCT on your single computer running under a legally acquired operation system.
I accept the terms of the license agreement
I do not accept the terms of the license agreement
InstallShield
< Back
Next >
Cancel

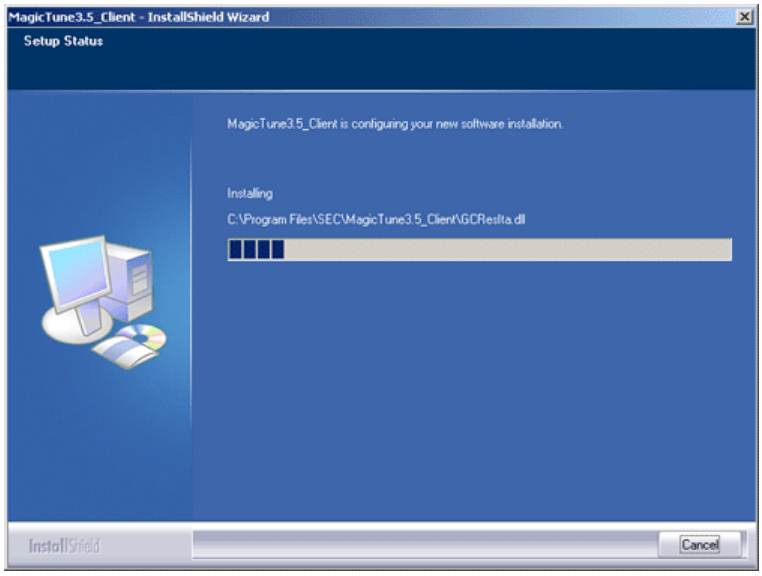
6. Choose a folder to install the MagicTune™ program.



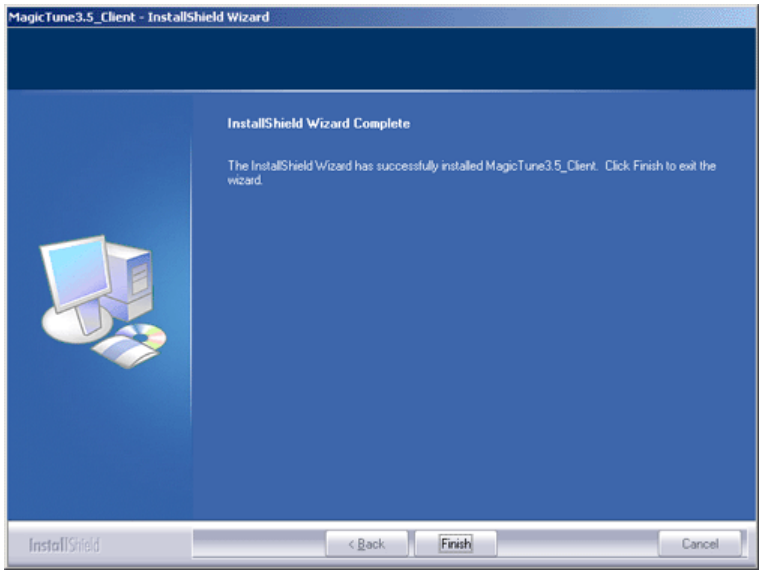
7. Click "Install."


MagicTune3.5_Client - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

8. The "Installation Status" window appears.



9. Click "Finish."



10. When the installation is complete, the MagicTune™ executable icon appears on your desktop.

Double-click the icon to start the program.

MagicTune™ execution icon may not appear depending on specification of computer system or monitor. If that happens, press F5 Key.

Installation Problems

The installation of MagicTune™ can be affected by such factors as the video card, motherboard and the network environment.
See "Troubleshooting" if you have trouble during installation.

System Requirements

OS

- Windows™ 98 SE
- Windows™ Me
- Windows™ 2000
- Windows™ XP Home Edition
- Windows™ XP Professional

It is recommended using MagicTune™ in Windows™ 2000 or later.

Hardware

- 32MB Memory above
- 25MB Hard disk space above

* For more information, visit the MagicTune™ website.

The MagicTune™ program is an additional program for monitor products.
Some computing systems that install either an older or the latest video driver are not compatible with MagicTune™.
Please visit the MagicTune™ Website for technical support for MagicTune™.

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Other trademarks are property of their respective holders.

MagicTune allows for quick accurate tuning of the display with the ability to easily save and use monitor configurations that are best suited for you.

- **OSD mode may appear inconsistent with the explanation in guidance book depending on specification of each monitor.**
- **MagicTune control mode will be different according to monitor models.**

OSD Mode

The OSD mode makes the adjustment of settings on all monitors easy. When selected , each tab on top of the control window displays the general descriptions of the sub-menu items for adjustment.
When selected, each tab displays a list of menus. For quick adjustment of the monitor settings, the OSD mode allows easy and convenient access to all tabs and sub-menu items.

Button Tab Definition

OK	Applies any changes made and exits MagicTune.
Reset	Restores the display settings to the factory settings.
Cancel	Exits MagicTune without applying the changes made. If you have not made any changes in the control window, clicking "Cancel" does not cause any actions.

Picture Tab Definition

Allows the user to adjust the screen settings to the desired values.

Brightness	Makes the entire screen brighter or darker. The detailed data of the images in the dark areas can be lost if the brightness is not adjusted to the proper level. Adjust the brightness for best viewing conditions.
Contrast	Adjusts the difference in brightness between the bright and dark areas on screen. Determines the crispness of the images.
MagicBright™	MagicBright™ is a new feature providing the optimum viewing environment depending on the contents of the image you are watching. Currently four different modes are available: Text, Internet,Game, Sport, Movie and Custom. Each mode has its own pre-configured brightness value. You can easily select one of six settings by simply pressing MagicBright control buttons. • **19" or above** 1. Text: For documentations or works involving heavy text. 2. Internet: For working with a mixture of images such as text and graphics. 3. Game: For watching motion pictures such as a Game. 4. Entertain: For watching motion pictures such as a DVD or VCD.

- **Less than 19"**

1. Text: For documentations or works involving heavy text.
2. Internet: For working with a mixture of images such as text and graphics.
3. Entertain: For watching motion pictures such as a DVD or VCD.

Color Tab Definition

Adjusts the "warmth" of the monitor background or image color.

Color Tone	The tone of the color can be changed. ● 5000K - 6500K - 9300K ● Reset

---

Color Control	Adjusts of the monitor image color. You can change the monitor color to your desired color. ● R- G - B ● sRGB

Image Tab Definition

Adjusts the Position, Size and Rotation values.

Geometry 1	Adjusts the Position, Size and Rotation values. ● Position ● Size ● Rotation

---

Geometry 2	Adjusts the Pincushion, Pinbalance, Trapezoid and Parallelogram values. ● Pincushion ● Pinbalance ● Trapezoid ● Parallelogram

---

Other	Adjusts the Moire, Degauss, Sidepin Corner, and Pinbalance Corner values. ● Moire ● Degauss ● Sidepin Corner Top ● Sidepin Corner Bottom ● Pinbalance Corner Top ● Pinbalance Corner Bottom

---

Option Tab Definition

You can configure MagicTune using the following options.

Preferences	Loads the Preferences Dialog Box. Preferences in use will have an "V" in the check box. To turn on or off any Preference, position the cursor over the box and click. • Enable task tray menu . - To access the MagicTune menus, click the icon on the [task tray menu]. The menus are not displayed if the [Enable System Tray] is deselected in [Options] ' [Basic Settings]. • Select Language - The language chosen affects only the language of the OSD.

Support Tab Definition

Shows the Asset ID and the version number of the program, and allows you to use the Help feature.

Help	Visit the MagicTune website or click to open the Help files (User Manual) if you need any help installing or running MagicTune. The User Manual opens within a basic browser window.	
Asset ID	you can use the server to control the Client monitor. (Server program should be installed to use this program as Client)	
	User Name	Shows the user name that is registered in PC.
	User ID	Shows the user ID that is register in PC.
	Server IP	Write down the server IP .
	Department	Write down the department.
	Location	Write down the location.
Version	Displays the version of MagicTune.	

The MagicTune™ program is an additional program for monitor products.
Some computing systems that install either an older or the latest video driver are not compatible with MagicTune™.
Please visit the MagicTune™ Website for technical support for MagicTune™.

Specifications subject to change without notice.
MagicTune™ is a trademark of SAMSUNG ELECTRONICS CO., Inc.
Windows™ is a registered trademark of Microsoft Corp.
Other trademarks are property of their respective holders.

Uninstall

The MagicTune™ program can be removed only by using the "Add or Remove Programs" option of the Windows™ Control Panel.

Perform the following steps remove MagicTune™.

1. Go to [Task Tray] ' [Start] ' [Settings] and select [Control Panel] in the menu. If the program runs on Windows™ XP, go to [Control Panel] in the [Start] menu.
2. Click the "Add or Remove Programs" icon in Control Panel.
3. In the "Add or Remove Programs" screen, scroll down to find "MagicTune™." Click on it to highlight it.
4. Click the "Change/Remove" button to remove the program.
5. Click "Yes" to begin the uninstall process.
6. Wait until the "Uninstall Complete" dialog box appears.

Visit the MagicTune™ website for technical support for MagicTune™, FAQs (questions and answers) and software upgrades.

The MagicTune™ program is an additional program for monitor products.
Some computing systems that install either an older or the latest video driver are not compatible with MagicTune™.
Please visit the MagicTune™ Website for technical support for MagicTune™.

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MagicTune™ HELP

Troubleshooting

The current computing system is not compatible with MagicTune™.
Please press OK and click on the "Shortcut to the MagicTune™ site" to view our home page for further reference.

An error may occur when your video/graphic card is not in the 'Available' list.
(The latest or oldest video cards may not be compatible.)

Please visit our homepage to see the Troubleshooting section.

An error may occur if the card maker has modified the video card driver or the graphics chip even when the video card is in the list.

Please visit our homepage to see the Troubleshooting section.

Check if your monitor is manufactured by Samsung.
Products from other manufacturers may cause errors.

Only Samsung products are able to support this feature.

An error may occur even when your monitor is manufactured by Samsung but is out of date.
Check if your monitor is able to support MagicTune™.

This feature is only supported by those monitors that are registered on our homepage.
Check for the monitor before purchasing it as out-of-date models are not supported.

An error occurs when no information on EDID (Extended Display Identification Data) exists for the current monitor.
This happens when from your desktop, Start > Setup > Control Panel > System > Hardware > Device Manager > Monitor is selected, the current "Plug-and-play monitor" is removed and new hardware is searched for but the system couldn't find any "Plug-and-play monitor".

Please visit our homepage to see the Troubleshooting section.

An error occurs when replacing the monitor with a new one when the system power is off but the system has not been restarted.

Please restart the system each time the monitor is replaced before using MagicTune™.

An error occurs when the video card driver is not installed properly.
This happens when the current video card list is not displayed normally. You can check this via Start > Setup > System > Hardware > Device Manager > Display Adapter.

Visit the video card maker's homepage and download and install the latest driver.
For more information about the video card, contact the card manufacturer.

To ensure normal operation, please restart your system.

An error occurs when the system is not restarted after installing MagicTune™.
(This is for Win98SE and WinMe only.)

Restart the system before use.

For the best performance of MagicTune™, adjust to the optimal resolution. Refer to the User Guide for the optimal resolution.

If you do not adjust to the optimal resolution and perform Color Calibration, the monitor cannot be adjusted to the optimal condition.

Refer to the manual for the optimal resolution.

This video card does not support MagicTune™.
Please install a new video card driver.

An error occurs when the video card driver is not installed properly.
This happens when the current video card list is not displayed normally. You can check this from Start > Setup > System > Hardware > Device Manager > Display Adapter.

Visit the video card manufacturer's homepage and download and install the latest driver.
For more information about the video card, contact the card manufacturer.

As the Highlight program uses the communication lines,
please exit the Highlight program before you can access MagicTune™.

Some of Samsung CDT monitors support the Highlight feature.
When using both the Highlight feature and MagicTune™ simultaneously, conflicts occur, which cause errors.

Make sure to turn OFF Highlight before using MagicTune™.

Troubleshooting

- MagicTune™ may not work in case monitor is replaced or driver of graphic card is updated while MagicTune™ is operating. If so, please restart the system.

Symptom	Check List	Solutions
Check when MagicTune™ does not function properly.	MagicTune™ feature is found only on PC (VGA) with Window OS that supports Plug and Play.	* To check whether your PC is available for MagicTune™ feature, follow the steps below (When Windows™ is XP); Control Panel -> Performance and Maintenance -> System -> Hardware -> Device Manager -> Monitors -> After deleting Plug and Play monitor, find 'Plug and Play monitor' by searching new Hardware.
		MagicTune™ is an additional software for the monitor. Some graphic cards may not support your monitor. When you have a problem with

		the graphic card, visit our website to check the compatible graphic card list provided. http://www.samsung.com/monitor/magicTune.
MagicTune™ doesn't work properly.	Have you changed your PC or video graphic card?	Download the latest program. The program can be downloaded http://www.samsung.com/monitor/magicTune.

- Visit the MagicTune™ website for technical support for MagicTune™, FAQs (questions and answers) and software upgrades.
- Visit the MagicTune™ website and download the installation software for MagicTune™ MAC.

The MagicTune™ program is an additional program for monitor products.
Some computing systems that install either an older or the latest video driver are not compatible with MagicTune™.
Please visit the MagicTune™ Website for technical support for MagicTune™.

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Automatic detect

Manual detect

- Exit Program
- Auto Detect
- Picture Setting
- Full Screen
- Highlight Off

Other Features

The Highlight Zone ensures the clear and sharp display of animated multimedia or photo images by enhancing the brightness of a certain area on the screen.

Highlight Zone III features a combination of the circuitry and the program built on the proprietary technology of SEC.

This offers an easy-to-use interface that highlights the video-playing portion of your multimedia program by automatically detecting and highlight the desired area by dragging.

The Highlight Zone provides optimal display of moving pictures. So, text may appear blurry in the Highlight Zone.

Automatic detect

Manual detect

Exit Program

Auto Detect

Picture Setting

Full Screen

Highlight Off

Other Features

Automatic detect

1. When the Highlight program is running, the monitor automatically detects the video-playing portion of your multimedia program and activates the Highlight Zone feature. No selection is necessary.

   Major multimedia programs: Windows Media Player, RealPlayer 8.0, video players on the broadcasters¡¯ websites, etc.
   However, Automatic Detect may not work with a DVD player. (In this case, change the setting to Manual Detect mode to create a Highlight Zone.)
   Select 'Off' in Auto Detect menu when you wish to deactivate the Automatic Detect feature.
   Since this disables the Auto Detect capability of the monitor, the monitor does not automatically create a Highlight Zone.
   (When you first install the program, Automatic Detect is set to 'On'.)

Note 1 : When OSD is selected while the Auto Detect is running, Highlight Zone turns off temporarily not to disturb adjustment of display conditions such as brightness and color.

Automatic detect

Manual detect

Exit Program

Auto Detect

Picture Setting

Full Screen

Highlight Off

Other Features

Manual detect

In Manual Detect mode, you can either select a window or use the Drag function to create a Highlight Zone.

1. Selecting a window: Click the Highlight icon( )on the Windows taskbar once to activate( )the cursor.
   Move the cursor onto the window of your choice and click once to Highlight the window.
2. Drag: Click the Highlight icon( )on the Windows taskbar once to activate( )the cursor.
   Click and hold the left mouse button, then drag the cursor to create a rectangle that covers the desired area. This rectangle becomes the Highlight Zone.

Note 1 : When the mouse cursor is activated( )and it is necessary to de-activate it to use it for other tasks, right click your mouse, or put the activated cursor ( )on the taskbar and click. When de-activated, the icon on the screen changes back to the one shown before activation.
Note 2 : You can determine whether the Highlight feature is on/off by the appearance of the icon on the taskbar. On( ), Off( )
Note 3 : When OSD is selected while the Manual Detect is running, Highlight Zone turns off temporarily, as it does when Auto detect is running.

Automatic detect

Manual detect

- Exit Program
- Auto Detect
- Picture Setting
- Full Screen
- Highlight Off

Other Features

Exit Program

1. Exits the Highlight program.

Automatic detect

Manual detect

Exit Program

Auto Detect

Picture Setting

Full Screen

Highlight Off

Other Features

Auto Detect

1. Allows user to disable Auto Detect when necessary.
   Once selected, this function saves the selection and keeps it in the memory regardless of exiting or restarting the program.
   When selected, a check mark (V) appears.

Automatic detect

Manual detect

- Exit Program
- Auto Detect
- Picture Setting
- Full Screen
- Highlight Off

Other Features

Picture Setting

1. Can be selected only when the Highlight Zone function is on. When selected, a menu window appears which can be used to adjust Contrast and Sharpness within the Highlight Zone.
   After changing the setting, select OK to save the changes, or Cancel to return to the previous setting.

Automatic detect
Manual detect
- Exit Program
- Auto Detect
- Picture Setting
- Full Screen
- Highlight Off

Other Features

Full Screen

1. Full Screen: Place the cursor on the Highlight icon( )on the Windows taskbar and right click your mouse once. Then select Full Screen from the menu.

Automatic detect

Manual detect

- Exit Program
- Auto Detect
- Picture Setting
- Full Screen
- Highlight Off

Other Features

Highlight Off

1. Cancels the selection of a Highlight Zone and reverts to the original screen.

Automatic detect
Manual detect
Exit Program
Auto Detect
Picture Setting
Full Screen
Highlight Off
Other Features

Other Features

The Highlight Zone function remembers the variables of the selected areas in Automatic and Manual Detect modes, respectively.

1. If the window selected as a Highlight Zone is moved or its size changed, the Highlight Zone changes accordingly.
2. If an un-selected window overlaps the window selected as a Highlight Zone, the Highlight Zone of the selected window turns off.
   However, it does not turn off the Zone completely and only makes the window shift to standby mode while the settings are saved. When the window is re-activated, the Highlight Zone turns on again with the settings unchanged.
3. If another un-overlapped window beside one with a Highlight Zone is selected as a Highlight Zone, Highlight Zone function is activated for the two separate windows simultaneously. (Up to eight windows can be selected as a Highlight Zone and if another window is selected as a Highlight Zone, the Highlight Zone of the previous windows turns off.)
   When the Highlight Zone is created using the Drag function, the Zone functions independently of the above since it uses a random portion of the screen instead of a particular window.

Note 1 : How to cancel the saved variables of a selected window.
1) When a window selected in Automatic Detect mode is replaced with another window also selected in Automatic Detect mode, only the last selection is saved, and the Highlight Zone function is de-activated for the previous windows.
2) In Manual Detect mode, only the window (or the frame window) created last is saved, and the Highlight Zone function is de-activated for the previous windows.
The Highlight Zone is de-selected when the program used to create the selected window is closed. The variables of the Highlight Zone created using the Drag function are not saved.

Note 2 : The changes saved under Picture Setting of the Highlight Zone menu remain effective even after the program is closed using Exit Program. (The next time you start the Highlight Zone program, the settings are shown as previously saved.)

Before calling for service, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

Symptom	Check List	Solutions
No images on the screen. I cannot turn on the monitor.	Is the power cord connected properly?	Check the power cord connection and supply.
	Can you see "?" on the screen?	Check the signal cable connection.
	If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen.	If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows ME/XP/2000) and then change the frequency of the video card. (Refer to the Preset Timing Modes) Note: If the initial screen (the login screen) does not appear, contact a service center or your dealer.
	Can you see "Hz ?" on the screen?	You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can properly handle. Adjust the maximum resolution and frequency that the monitor can handle properly.
	There is no image on the screen. Is the power indicator on the monitor blinking at 1 second intervals?	The monitor is in PowerSaver mode. Press any key on the keyboard to activate the monitor and restore the image on the screen.
The image on the screen is shaking.	Check the monitor configuration to see if it is in Interlace Mode. (Interlace Mode: Vertical frequency 43Hz, 87Hz(i), etc)	Change the vertical frequency to Non-Interlace mode by referring to the video card manual.
	Are there any	Move the monitor away from

	magnetic products such as a power adapter, speaker or a high voltage wire near by?	anything that can create a strong magnetic field.
	Is the voltage stable?	The screen image can appear to shake or vibrate at a particular time of day due to low supply voltage.
	The screen image can also appear to shake or vibrate if there is a problem with the video card or the computer's main board.	
The screen shows strange colors or just black and white.	Is the screen displaying only one color as if looking at the screen through a cellophane paper?	Check the signal cable connection. Make sure the video card is fully inserted in it's slot.
	Have the screen colors become strange after running a program or due to a crash between applications?	Reboot the computer.
	Has the video card been set properly?	Set the video card by referring to the video card manual.
The screen suddenly has become unbalanced.	Have you changed the video card or the driver?	Adjust screen image position and size using the OSD.
	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the Preset Timing Modes).
	The screen can be unbalanced due to the cycle of the video card signals. Readjust Position by referring to the OSD.	
The screen is out of focus or OSD cannot be adjusted.	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the Preset Timing Modes).
The screen is partially distorted.	Are there any magnetic products such as an adapter, speaker or a high voltage wire near the monitor?	Enter the OSD and perform a "Degauss". Keep the monitor away from any magnetic products.
LED is blinking but no images on the screen.	Is the frequency properly adjusted when checking the Display Timing on the menu?	Adjust the frequency properly by referring to the video card manual and the Preset Timing Modes. (The maximum frequency per resolution may differ from product to product.)
There are only 16 colors shown on the screen. The screen colors have changed after changing the video card.	Have the Windows colors been set properly?	Windows ME/2000/XP: Set the colors properly at the **Control Panel → Display → Settings**.
	Has the video card been set properly?	Set the video card by referring to the video card manual.
There is a message that reads "Unrecognized monitor, Plug & Play (VESA DDC) monitor	Have you installed the monitor driver?	Install the monitor driver according to the Driver Installation Instructions.
	See the video card manual to see if the Plug & Play (VESA	Install the monitor driver according to the Driver Installation Instructions.

found".	DDC) function can be supported.	
Check when MagicTune does not function properly.	MagicTune feature is found only on PC (VGA) with Window OS that supports Plug and Play.	* To check whether your PC is available for MagicTune feature, follow the steps below (When Windows is XP); Control Panel -> Performance and Maintenance -> System -> Hardware -> Device Manager -> Monitors -> After deleting Plug and Play monitor, find 'Plug and Play monitor' by searching new Hardware.
		MagicTune is an additional software for the monitor. Some graphic cards may not support your monitor. When you have a problem with the graphic card, visit our website to check the compatible graphic card list provided. http://www.samsung.com/monitor/magictune
MagicTune™ doesn't work properly.	Have you changed your PC or video graphic card?	Download the latest program. The program can be downloaded http://www.samsung.com/monitor/magictune.

Visit the MagicTune™ website and download the installation software for MagicTune™ MAC.

Check the following items if there is trouble with the monitor.

1. Check if the power cord and the video cables are properly connected to the computer.
2. Check if the computer beeps more than 3 times when booting.
   (If it does, request an after-service for the main board of the computer.)
3. If you installed a new video card or if you assembled the PC, check if the installed adapter (video) driver and the monitor driver.
4. Check if the scanning ratio of the video screen is set at 50Hz ~ 160Hz .
   (Do not exceed 65Hz when using the maximum resolution.)
5. If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the Display Adapter at the "**Control Panel→System→Device Administrator**" and then reboot the computer to reinstall the adapter (video) driver.

Tips for HighlightZone

1. To protect CDT against the screen brightness, the HighlightZone function persists for three hours and then automatically stops. So please reset it to continue.
2. Once the HighlightZone has been switched off, you can't select any of the other menus within the Hightlight Zone.
3. When the HighlightZone function is operated, the surrounding brightness of screen may become dark.
4. Depending on the video card you use, a color saturation phenomenon may occur in the HighlightZone . In this case, slightly lower the contrast of the HighlightZone and the color saturation will be reduced.

If problems repeatedly occur, contact an authorized service center.

Q & A

Question	Answer
How can I change the frequency?	Frequency can be changed by reconfiguring the video card. Note that video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)
How can I adjust the resolution?	Windows ME/XP/2000 : Set the resolution at the **Control Panel→Display→Settings**. * Contact the video card manufacturer for details.
How can I set the Power Saving function?	Windows ME/XP/2000 : Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).
The monitor makes a sound when it is turned on.	This is normal as some sound may be generated when the metal case and the electromagnet, which are installed to block any electromagnetic waves, interact with each other.
How can I clean the outer case/Picture tube?	Disconnect the power cord and then clean the monitor with a soft cloth, using either a cleaning solution or plain water. Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.

HighlightZone III Q & A

Question	Answer
The program does not function properly.	HighlightZone III features a combination of circuitry and software built on proprietary technology of SEC. Therefore, the HighlightZone III feature is found only on SEC monitors that support the feature. Check if your monitor supports the HighlightZone III feature. If not, the HighlightZone III icon will show a message saying, "No Connection" ( )Connect the monitor properly before using it. Neither Automatic Detect or nor Manual Detect function while the icon shows the message, "No Connection". You can only exit the program.
Started a multimedia program but the HighlightZone function does not automatically activate.	Check the HighlightZone III menu and see if Disable Auto Detect is selected. When selected, the HighlightZone function is not automatically activated. The function may not be activated automatically for some multimedia programs. In this case, use Manual Detect instead. See Manual Detect under (HighlightZone III) Check the color settings and see if sRGB is selected. When sRGB is selected, the HighlightZone function remains de-activated in order to maintain the sRGB color attributes.
Changed the setting to HighlightZone in Manual Detect mode but the HighlightZone feature has not been activated	Check the color setting of the monitor and see if sRGB is selected. When sRGB is selected, the HighlightZone function remains de-activated in order to maintain the sRGB color attributes. Some of the windows may not be selected when HighlightZone function is on.
Want to turn the Auto Detect function off.	Set Disable Auto Detect to off from the HighlightZone III menu. See (HighlightZone III functions)
Don¡¯t know whether the Highlight program is running.	Check the icon on the taskbar. ( ) indicates the function is activated and ( )shows it has been

	deactivated.
When a HighlightZone is on, the rest of the screen dims.	Monitors with the HighlightZone feature are equipped with an Automatic Beam Control function. When activated, this may cause slight dimming of the surrounding screen. However, this does not indicate a malfunction of any kind, and it is safe to continue to use the product.
The HighlightZone appears too dark.	Check the Contrast value in Picture Setting and adjust it for your ideal viewing.
Want to adjust the position and size of the HighlightZone .	You can change the position and/or the size of the HighlightZone easily using the Manual Detect function. See (HighlightZone III functions)
Cannot select Picture Setting.	The Picture Setting feature can be selected only when the HighlightZone function is on. Turn the HighlightZone function on before selecting Picture Setting.

Self-Test Feature Check

Self-Test Feature Check | Warning Messages | Environment | Useful Tips

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.

Self-Test Feature Check

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer.
3. Turn on the monitor.
   If the monitor is functioning properly, you will see a box in the illustration below.

   This box appears during normal operation if the video cable becomes disconnected or damaged.
4. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.
   If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; your monitor is functioning properly.

Warning Messages

If there is something wrong with the input signal, the message below appears on the screen or the screen goes blank although the power indicator LED is still on. The message may indicate that the monitor is out of scan range or that you need to check the signal cable.

Environment

The location and the position of the monitor may influence the quality and other features of the monitor.

1. If there are any sub woofer speakers near the monitor, unplug and relocate the woofer to another room.
2. Remove all electronic devices such as radios, fans, clocks and telephones that are within 3 feet (one meter) of the monitor.
3. Degauss the monitor if any devices were removed from the area.

Useful Tips

- A monitor recreates visual signals received from the computer. Therefore, if there is trouble with the computer or the video card, this can cause the monitor to become blank, have poor coloring, noise, unavailable video mode, etc. In this case, first check the source of the problem, and then contact a service center or your dealer.
- **Judging the monitor's working condition**

  If there is no image on the screen or a **"Hz ?"** message comes up, disconnect the cable from the computer while the monitor is still powered on.

  - If there is a message coming up on the screen or if the screen goes white, this means the monitor is in working condition.
  - In this case, check the computer for trouble.

Before calling for service, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

Symptom	Check List	Solutions
No images on the screen. I cannot turn on the monitor.	Is the power cord connected properly?	Check the power cord connection and supply.
	Can you see "?" on the screen?	Check the signal cable connection.
	If the power is on, reboot the computer to see the initial screen(the login screen), which can be seen.	If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows ME/XP/2000) and then change the frequency of the video card. (Refer to the Preset Timing Modes) Note: If the initial screen (the login screen) does not appear, contact a service center or your dealer.
	Can you see "?" on the screen?	You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can properly handle. Adjust the maximum resolution and frequency that the monitor can handle properly.
	There is no image on the screen. Is the power indicator on the monitor blinking at 1 second intervals?	The monitor is in PowerSaver mode. Press any key on the keyboard to activate the monitor and restore the image on the screen.
The image on the screen is shaking.	Check the monitor configuration to see if it is in Interlace Mode. (Interlace Mode: Vertical frequency 43Hz, 87Hz(i), etc)	Change the vertical frequency to Non-Interlace mode by referring to the video card manual.
	Are there any magnetic products such as a power adapter, speaker	Move the monitor away from anything that can create a strong magnetic field.

	or a high voltage wire near by?	
	Is the voltage stable?	The screen image can appear to shake or vibrate at a particular time of day due to low supply voltage.
	The screen image can also appear to shake or vibrate if there is a problem with the video card or the computer's main board.	
The screen shows strange colors or just black and white.	Is the screen displaying only one color as if looking at the screen through a cellophane paper?	Check the signal cable connection. Make sure the video card is fully inserted in it's slot.
	Have the screen colors become strange after running a program or due to a crash between applications?	Reboot the computer.
	Has the video card been set properly?	Set the video card by referring to the video card manual.
The screen suddenly has become unbalanced.	Have you changed the video card or the driver?	Adjust screen image position and size using the OSD.
	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the Preset Timing Modes).
	The screen can be unbalanced due to the cycle of the video card signals. Readjust Position by referring to the OSD.	
The screen is out of focus or OSD cannot be adjusted.	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the Preset Timing Modes).
The screen is partially distorted.	Are there any magnetic products such as an adapter, speaker or a high voltage wire near the monitor?	Enter the OSD and perform a "Degauss". Keep the monitor away from any magnetic products.
LED is blinking but no images on the screen.	Is the frequency properly adjusted when checking the Display Timing on the menu?	Adjust the frequency properly by referring to the video card manual and the Preset Timing Modes. (The maximum frequency per resolution may differ from product to product.)
There are only 16 colors shown on the screen. The screen colors have changed after changing the video card.	Have the Windows colors been set properly?	Windows ME/2000/XP: Set the colors properly at the **Control Panel → Display → Settings**.
	Has the video card been set properly?	Set the video card by referring to the video card manual.
There is a message that reads "Unrecognized monitor, Plug & Play (VESA DDC) monitor found".	Have you installed the monitor driver?	Install the monitor driver according to the Driver Installation Instructions.
	See the video card manual to see if the Plug & Play (VESA DDC) function can be supported.	Install the monitor driver according to the Driver Installation Instructions.
Check when MagicTune does not function properly.	MagicTune feature is found only on PC (VGA) with Window OS that supports Plug and Play.	* To check whether your PC is available for MagicTune feature, follow the steps below (When Windows is XP); Control Panel → Performance and Maintenance → System → Hardware → Device Manager → Monitors → After

		deleting Plug and Play monitor, find 'Plug and Play monitor' by searching new Hardware.
		MagicTune is an additional software for the monitor. Some graphic cards may not support your monitor. When you have a problem with the graphic card, visit our website to check the compatible graphic card list provided. http://www.samsung.com/monitor/magictune
MagicTune™ doesn't work properly.	Have you changed your PC or video graphic card?	Download the latest program. The program can be downloaded http://www.samsung.com/monitor/magictune.

Visit the MagicTune™ website and download the installation software for MagicTune™ MAC.

Check the following items if there is trouble with the monitor.

1. Check if the power cord and the video cables are properly connected to the computer.
2. Check if the computer beeps more than 3 times when booting.
   (If it does, request an after-service for the main board of the computer.)
3. If you installed a new video card or if you assembled the PC, check if the installed adapter (video) driver and the monitor driver.
4. Check if the scanning ratio of the video screen is set at 50Hz ~ 160Hz .
   (Do not exceed 68 Hz when using the maximum resolution.)
5. If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the Display Adapter at the "**Control Panel→System→Device Administrator**" and then reboot the computer to reinstall the adapter (video) driver.

Tips for HighlightZone

1. To protect CDT against the screen brightness, the HighlightZone function persists for three hours and then automatically stops. So please reset it to continue.
2. Once the HighlightZone has been switched off, you can't select any of the other menus within the Hightlight Zone.
3. When the HighlightZone function is operated, the surrounding brightness of screen may become dark.
4. Depending on the video card you use, a color saturation phenomenon may occur in the HighlightZone . In this case, slightly lower the contrast of the HighlightZone and the color saturation will be reduced.

If problems repeatedly occur, contact an authorized service center.

Q & A

Question	Answer
How can I change the frequency?	Frequency can be changed by reconfiguring the video card. Note that video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)
How can I adjust the resolution?	Windows ME/XP/2000 : Set the resolution at the **Control Panel→Display→Settings**. * Contact the video card manufacturer for details.

How can I set the Power Saving function?	Windows ME/XP/2000 : Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).
The monitor makes a sound when it is turned on.	This is normal as some sound may be generated when the metal case and the electromagnet, which are installed to block any electromagnetic waves, interact with each other.
How can I clean the outer case/Picture tube?	Disconnect the power cord and then clean the monitor with a soft cloth, using either a cleaning solution or plain water. Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.

HighlightZone III Q & A

Question	Answer
The program does not function properly.	HighlightZone III features a combination of circuitry and software built on proprietary technology of SEC. Therefore, the HighlightZone III feature is found only on SEC monitors that support the feature. Check if your monitor supports the HighlightZone III feature. If not, the HighlightZone III icon will show a message saying, "No Connection" ()Connect the monitor properly before using it. Neither Automatic Detect or nor Manual Detect function while the icon shows the message, "No Connection". You can only exit the program.
Started a multimedia program but the HighlightZone function does not automatically activate.	Check the HighlightZone III menu and see if Disable Auto Detect is selected. When selected, the HighlightZone function is not automatically activated. The function may not be activated automatically for some multimedia programs. In this case, use Manual Detect instead. See Manual Detect under (HighlightZone III) Check the color settings and see if sRGB is selected. When sRGB is selected, the HighlightZone function remains de-activated in order to maintain the sRGB color attributes.
Changed the setting to HighlightZone in Manual Detect mode but the HighlightZone feature has not been activated	Check the color setting of the monitor and see if sRGB is selected. When sRGB is selected, the HighlightZone function remains de-activated in order to maintain the sRGB color attributes. Some of the windows may not be selected when HighlightZone function is on.
Want to turn the Auto Detect function off.	Set Disable Auto Detect to off from the HighlightZone III menu. See (HighlightZone III functions)
Don¡¯t know whether the Highlight program is running.	Check the icon on the taskbar. () indicates the function is activated and ()shows it has been deactivated.
When a HighlightZone is on, the rest of the screen dims.	Monitors with the HighlightZone feature are equipped with an Automatic Beam Control function. When activated, this may cause slight dimming of the surrounding screen. However, this does not indicate a malfunction of any kind, and it is safe to continue to use the product.
The HighlightZone appears too dark.	Check the Contrast value in Picture Setting and adjust it for your ideal viewing.
Want to adjust the position and size of the HighlightZone .	You can change the position and/or the size of the HighlightZone easily using the Manual Detect function. See (HighlightZone III functions)

Cannot select Picture Setting.	The Picture Setting feature can be selected only when the HighlightZone function is on. Turn the HighlightZone function on before selecting Picture Setting.

Self-Test Feature Check

Self-Test Feature Check | Warning Messages | Environment | Useful Tips

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.

Self-Test Feature Check

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer.
3. Turn on the monitor.
   If the monitor is functioning properly, you will see a box in the illustration below.

   This box appears during normal operation if the video cable becomes disconnected or damaged.

4. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.
   If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; your monitor is functioning properly.

Warning Messages

If there is something wrong with the input signal, the message below appears on the screen or the screen goes blank although the power indicator LED is still on. The message may indicate that the monitor is out of scan range or that you need to check the signal cable.

Environment

The location and the position of the monitor may influence the quality and other features of the monitor.

1. If there are any sub woofer speakers near the monitor, unplug and relocate the woofer to another room.
2. Remove all electronic devices such as radios, fans, clocks and telephones that are within 3 feet (one meter) of the monitor.

3. Degauss the monitor if any devices were removed from the area.

Useful Tips

- A monitor recreates visual signals received from the computer. Therefore, if there is trouble with the computer or the video card, this can cause the monitor to become blank, have poor coloring, noise, unavailable video mode, etc. In this case, first check the source of the problem, and then contact a service center or your dealer.
- **Judging the monitor's working condition**

  If there is no image on the screen or a **"Hz ?"** message comes up, disconnect the cable from the computer while the monitor is still powered on.

  - If there is a message coming up on the screen or if the screen goes white, this means the monitor is in working condition.
  - In this case, check the computer for trouble.

General

General	
Model Name	SyncMaster 703MS *Plus* SyncMaster 704MS *Plus*
Picture Tube	
Type	17" (43 cm) DynaFlat-X (16.0" viewable)
Deflection angle	90 °
Dot Pitch	0.20 mm (Horizontal)
Screen type	Aluminized tri-color phosphor dot trio with black matrix. Anti-doming invar shadow mask. Multi-layer coated with anti-static.
Resolution	
Optimum resolution	1024 x 768 @ 85 Hz
Maximum resolution	1280 x 1024 @ 65 Hz
Active Display	
Horizontal	312 ± 4 mm
Vertical	234 ± 4 mm
Synchronization	
Horizontal	30 ~ 70 kHz
Vertical	50 ~ 160 Hz
Input Signal Definition	
Video Signal	RGB, Analog 0.7 Vp-p Positive at 75 Ω
Sync Signal	Separate H/V sync, TTL level, positive or negative
Display Color	
Unlimited	
Maximum Pixel Clock	
120 MHz	
Power Supply	
AC 90 ~ 264 VAC, 50/60 Hz	

Power Consumption	
Less than 75 W	
Dimensions (WxDxH)	
456 x 465 x 462 mm / 18.0 x 18.3 x 18.2 inch (After installation of Stand)	
Weight	
13.2 kg	
Environmental considerations	
Operating	Temperature 32°F ~ 104°F(0°C ~ 40°C) Humidity 10% ~ 80%, non-condensing
Storage	Temperature -4°F ~113°F (-20°C ~ 45°C) Humidity 5% ~ 95%, non-condensing
Plug and Play Capability	
This monitor can be installed on any Plug & Play compatible system. Interaction of the monitor and computer systems will provide the best operating conditions and monitor settings. In most cases, monitor installation will proceed automatically, unless the user wishes to select alternate settings.	
Note: Design and specifications are subject to change without prior notice.	

PowerSaver

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPMS compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power-off mode
Power Indicator	Green	Green, Blinking
Power Consumption	Less than 72 W	Less than 1 W

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	53.700	85.100	56.250	+/+
VESA, 1024 x 768	68.700	85.000	94.500	+/+

Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle and the inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called Vertical Frequency or Refresh Rate. Unit: Hz

General

General		
Model Name	SyncMaster 705MS *Plus*	SyncMaster 706MS *Plus*
Picture Tube		
Type	17" (43 cm) DynaFlat-X (16.0" viewable)	
Deflection angle	90 °	
Dot Pitch	0.20 mm (Horizontal)	
Screen type	Aluminized tri-color phosphor dot trio with black matrix. Anti-doming invar shadow mask. Multi-layer coated with anti-static.	
Resolution		
Optimum resolution	1024 x 768 @ 85 Hz 1280 x 1024 @ 75 Hz	
Maximum resolution	1600 x 1200 @ 68 Hz	
Active Display		
Horizontal	312 ± 4 mm	
Vertical	234 ± 4 mm	
Synchronization		
Horizontal	30 ~ 85 kHz	
Vertical	50 ~ 160 Hz	
Input Signal Definition		
Video Signal	RGB, Analog 0.7 Vp-p Positive at 75 Ω	
Sync Signal	Separate H/V sync, TTL level, positive or negative	
Display Color		
Unlimited		
Maximum Pixel Clock		
120 MHz		
Power Supply		

AC 90 ~ 264 VAC, 50/60 Hz	
Power Consumption	
Less than 75 W	
Dimensions (WxDxH)	
456 x 465 x 462 mm / 18.0 x 18.3 x 18.2 inch (After installation of Stand)	
Weight	
13.2 kg	
Environmental considerations	
Operating	Temperature 32°F ~ 104°F(0°C ~ 40°C) Humidity 10% ~ 80%, non-condensing
Storage	Temperature -4°F ~113°F (-20°C ~ 45°C) Humidity 5% ~ 95%, non-condensing
Plug and Play Capability	
This monitor can be installed on any Plug & Play compatible system. Interaction of the monitor and computer systems will provide the best operating conditions and monitor settings. In most cases, monitor installation will proceed automatically, unless the user wishes to select alternate settings.	
Note: Design and specifications are subject to change without prior notice.	

PowerSaver

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPMS compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power-off mode
Power Indicator	Green	Green, Blinking
Power Consumption	Less than 73 W	Less than 1 W

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 1024 x 768	68.700	85.000	94.500	+/+
VESA, 1280 x 1024	80.000	75.000	135.000	+/+

Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle and the inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called Vertical Frequency or Refresh Rate. Unit: Hz

Contact SAMSUNG WORLD-WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

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Terms

Dot Pitch
The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit: mm

Vertical Frequency
The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate. Unit: Hz

Example: If the same light repeats itself 60 times per second, this is regarded as 60 Hz.

Horizontal Frequency
The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Interlace and Non-Interlace Methods
Showing the horizontal lines of the screen from the top to the bottom in order is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

Plug & Play
This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

Resolution
The number of horizontal and vertical dots used to compose the screen image is called 'resolution'. This number shows the accuracy of the display. High resolution is good for performing multiple tasks as more image information can be shown on the screen.

Example: If the resolution is 1024 X 768, this means the screen is composed of 1024 horizontal dots (horizontal resolution) and 768 vertical lines (vertical resolution).

Highlight Zone III
Highlight Zone is an enhancement feature to increase luminance in a certain area of the monitor for brighter and sharper images/photos. Highlight Zone III 3.5 is carried by Samsung's unique circuit technology and a powerful combination of programs in order to implement the Highlight Zone feature. This is a user friendly program that automatically highlights a certain video area or enables users to specify an area of their choice to be highlighted.

MagicBright2™
MagicBright is an advanced monitor that boasts more than twice the brightness and sharpness compared to conventional models, and which provides a contextual display environment depending on word processing, internet, game or video purposes. The user can use the front button panel to control the screen at four different levels of brightness and sharpness for their preference.

MagicGreen

The MagicGreen CDT monitor has adopted a Well-Being CDT that is coated with a Vital & Pure coating, which radiates far infrared and anion and provides antibacterial and deodorizing

effects.

- **Vital Coating** Radiates far infrared and anion by applying a specialized ceramic on the surface of the CDT funnel.
- **Pure Coating** Provides antibacterial deodorizing effects by treating the surface with photocatalyst TiO2 and Nano Silver.

Authority

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Class B
This device is a Class B digital apparatus. For Safety and EMC compliance guide, you may refer to "Regulatory" Guide.

MÉXICO

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EXPORTADO POR:	Samsung Electronics CO.,LTD. 416, Mae tan-3dong, Yeongtong - gu, Suwon City, Gyeonggi-do Korea

Correct Disposal of This Product
(Waste Electrical & Electronic Equipment) - Europe only

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.